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QM protein - protein search, using sw model

Run on January 16, 2003, 16:44:27 / Search time 5.75714 seconds
(without alignments)
32.360 Million cell updates/sec

Title: US-09-856-070-23
Perfect score: 55
Sequence: 1 ELMRLQDYEE 11

Scoring table: BLASTM62
Gapop 10.0, Gapext 0.5

Searched: 120991 seqs, 19878514 residues

Total number of hits satisfying chosen parameters: 120991

Minimum DB seq length: 0

Maximum DB seq length: 200000000

post-processing Minimum Match 68%
Maximum Match 100%
Listing first 45 summaries

Database: Published Applications AA:*

- 1: /cgn2_6/ptdata/2/pubseq/us09-856-070-23.rapb
- 2: /cgn2_6/ptdata/2/pubseq/US09-856-070-23.rapb
- 3: /cgn2_6/ptdata/2/pubseq/US06-NEW_PUB.rapb
- 4: /cgn2_6/ptdata/2/pubseq/US06_PUB.rapb
- 5: /cgn2_6/ptdata/2/pubseq/US07_NEW_PUB.rapb
- 6: /cgn2_6/ptdata/2/pubseq/US07_PUB.rapb
- 7: /cgn2_6/ptdata/2/pubseq/US08_PUB.rapb
- 8: /cgn2_6/ptdata/2/pubseq/US08_PUB.rapb
- 9: /cgn2_6/ptdata/2/pubseq/US09_PUB.rapb
- 10: /cgn2_6/ptdata/2/pubseq/US09_PUB.rapb
- 11: /cgn2_6/ptdata/2/pubseq/US10_NEW_PUB.rapb
- 12: /cgn2_6/ptdata/2/pubseq/US10_PUB.rapb
- 13: /cgn2_6/ptdata/2/pubseq/US60_PUB.rapb
- 14: /cgn2_6/ptdata/2/pubseq/US60_PUB.rapb

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	55	100.0	635	10	US-09-856-070-23.rapb
2	39	72.9	57	10	US-09-856-070-23.rapb
3	34	61.8	333	10	US-09-828-313-33
4	34	61.8	405	10	US-09-863-475A-8
5	33	60.0	46	10	US-09-864-761-45608
6	33	60.0	236	10	US-09-864-761-45608
7	33	60.0	236	9	US-09-864-761-45608
8	33	60.0	721	12	US-10-025-187-2
9	32	59.1	149	10	US-09-864-761-45608
10	32	58.2	216	10	US-09-864-761-45608
11	32	58.2	912	9	US-09-864-761-45608
12	32	58.2	3353	10	US-09-864-761-45608
13	31	56.4	39	10	US-09-864-761-45608
14	31	56.4	86	10	US-09-864-761-45608
15	31	56.4	86	10	US-09-864-761-45608
16	31	56.4	95	10	US-09-864-761-45608
17	31	56.4	163	10	US-09-864-761-45608
18	31	56.4	166	10	US-09-864-761-45608
19	31	56.4	181	10	US-09-864-761-45608

Sequence 14, Appl
Sequence 66, Appl
Sequence 66, Appl
Sequence 14, Appl
Sequence 66, Appl
Sequence 932, Appl
Sequence 5830, Appl
Sequence 12981, Appl
Sequence 13150, Appl
Sequence 6891, Appl
Sequence 711, Appl
Sequence 3, Appl
Sequence 1, Appl
Sequence 1587, Appl
Sequence 201, Appl
Sequence 11669, Appl
Sequence 12309, Appl
Sequence 34882, Appl
Sequence 44760, Appl
Sequence 239, Appl
Sequence 49772, Appl
Sequence 14, Appl
Sequence 1, Appl
Sequence 5588, Appl
Sequence 12426, Appl
Sequence 12773, Appl

ALIGNMENTS

RESULT 1
US-09-856-299-896
Sequence 896, Appl 100.0% US-09-856-299-896
Patent No. US2002005527A1
GENERAL INFORMATION:
APPLICANT: Kosch et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: P4102
CURRENT APPLICATION NUMBER: US/09/425,799
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05883
PRIOR FILING DATE: 2000-03-08
PCT APPLICATION NUMBER: 65/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1556
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 896
LENGTH: 635
TYPE: PRT
ORGANISM: Homo sapiens
US-09-856-299-896

Query Match 100.0% Score 55; DB 10; length 635;
Best Local Similarity 100.0%, Prod. No. 0.015;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ELMRLQDYEE 11
VL 100 ELMRLQDYEE 405

RESULT 2
US-09-864-761-44065
Sequence 44065, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GENE EXPRESSION ANALYSIS BY MICROARRAY

FILE REFERENCE: Acomica-X 1
 CURRENT APPLICATION NUMBER: US/09/864.761
 CURRENT FILING DATE: 2001-05-23
 PRIOR APPLICATION NUMBER: US 60/180.312
 PRIOR FILING DATE: 2000-02-04
 PRIOR APPLICATION NUMBER: US 60/207.456
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: US 09/632.366
 PRIOR FILING DATE: 2000-08-03
 PRIOR APPLICATION NUMBER: GB 24263.6
 PRIOR FILING DATE: 2000-10-04
 PRIOR APPLICATION NUMBER: US 60/236.359
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/00666
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00664
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00669
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00665
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00668
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00663
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00662
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00661
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00670
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: US 60/234.687
 PRIOR FILING DATE: 2000-09-21
 PRIOR APPLICATION NUMBER: US 09/608.408
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: US 09/774.203
 PRIOR FILING DATE: 2001-01-29
 NUMBER OF SEQ ID NOS: 49117
 SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
 SEQ ID NO 44065
 LENGTH: 57
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AC006195.1
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL - 1.2
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL - 1.2
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL - 7.6
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL - 1.4
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL - 1.1
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL - 1.1
 OTHER INFORMATION: SWISSPROT HIT: P56092, EVALU6 4.60e-00
 US 09-864-761-44065

Query Match: 70.9%; Score 39; DB 10; Length 57;
 Best Local Similarity 72.7%; Pred. No. 0.9;
 Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELMRLQDYE 11
 111111111
 DB 18 ELIVDLQDYD 28

RESULT 3
 US 09-828-113-33
 Sequence 33, Application US/09/828.313
 Patent No. US2002059662A1
 GENERAL INFORMATION:
 APPLICANT: COSTA e SILVA, OSWALDO DA
 APPLICANT: HUBNER, HANS J.
 APPLICANT: THIELEN, NOCHA VAN

APPLICANT: CHEN, ROUYING
 TITLE OF INVENTION: SARRIA-MILLAN, RODRIGO
 TITLE OF INVENTION: PROTEIN KINASE STRESS-RELATED PROTEINS AND METHODS OF
 FILE REFERENCE: 16313-0032
 CURRENT APPLICATION NUMBER: US/09/828.313
 CURRENT FILING DATE: 2001-04-06
 PRIOR APPLICATION NUMBER: 60/196.001
 PRIOR FILING DATE: 2000-04-07
 NUMBER OF SEQ ID NOS: 128
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 33
 LENGTH: 333
 TYPE: PRT
 ORGANISM: Physcomitrella patens
 US-09-828-313-33

Query Match: 61.8%; Score 34; DB 10; Length 333;
 Best Local Similarity 60.0%; Pred. No. 45;
 Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELMRLQDYE 10
 111111111
 DB 196 ELIVDLQDYD 205

RESULT 4
 US-09-863-475A-8
 Sequence 8, Application US/09863475A
 Patent No. US2002019268A1
 GENERAL INFORMATION:
 APPLICANT: LOWE, JOHN B.
 TITLE OF INVENTION: METHODS AND PRODUCTS FOR THE SYNTHESIS
 OF OLIGOSACCHARIDE STRUCTURES ON GLYCOPROTEINS,
 GLYCOLIPIDS, OR AS FREE MOLECULES, AND FOR THE ISOLATION
 OF CLONED GENETIC SEQUENCES THAT DETERMINE THESE STRUCTURE
 NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: GELON, SPIVAK, MACLELLAND, MAIER & NEUSTADT,
 P.C.
 STREET: 1755 Jefferson Davis Highway, Fourth Floor
 CITY: Arlington
 STATE: Virginia
 COUNTRY: U.S.A.
 ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA: US/09/863.475A
 APPLICATION NUMBER: US/09/863.475A
 FILING DATE: 24-May-2001
 CLASSIFICATION: Unknown
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/914,281
 FILING DATE: 20-JUL-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Calvelley, Jean-Paul M. P.
 REGISTRATION NUMBER: 31,451
 REFERENCE/DOCKET NUMBER: 2363-060-55
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703)521-4500
 TELEFAX: (703)486-2347
 TELEX: 248855 OPAT UR
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 405 amino acids
 TYPE: amino acid
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 US-09-863-475A-8

Query Match 61.8% Score 34; DB 10; Length 405;
 Best Local Similarity 63.6% Pred. No. 56;
 Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELMRLQDYEE 11
 DB 137 EVDRLVDYEE 147

RESULT 5

US-09-864-761-45608
 ; Sequence 45608, Application US/09864761
 ; Patent No. US20020048763A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Penn, Sharon G.
 ; APPLICANT: Rank, David R.
 ; APPLICANT: Hanzel, David K.
 ; APPLICANT: Chen, Wensheng
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEOTIC ACID PROBES USEFUL FOR
 ; FILE REFERENCE: Amino-X-1
 ; CURRENT FILING DATE: 2001-05-23
 ; PRIOR APPLICATION NUMBER: US/09/864,761
 ; PRIOR FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: US 60/180,312
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 60/207,456
 ; PRIOR FILING DATE: 2000-08-03
 ; PRIOR APPLICATION NUMBER: US 09/632,366
 ; PRIOR FILING DATE: 2000-10-04
 ; PRIOR APPLICATION NUMBER: US 24,253.6
 ; PRIOR FILING DATE: 2000-10-04
 ; PRIOR APPLICATION NUMBER: US 60/236,359
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00669
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00665
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00668
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00663
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00662
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00661
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00670
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: US 60/234,687
 ; PRIOR FILING DATE: 2000-09-21
 ; PRIOR APPLICATION NUMBER: US 09/608,408
 ; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: US 09/774,203
 ; PRIOR FILING DATE: 2001-01-29
 ; NUMBER OF SEQ ID NOS: 49117
 ; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
 ; SEQ ID NO 45608
 ; LENGTH: 46
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: MAP TO A-000155.3
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.65
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.62
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.94
 ; OTHER INFORMATION: EST_HUMAN HIT: AL138321.1, EVALUATE 5.00e-11
 ; OTHER INFORMATION: SWISSPROT HIT: P45891, EVALUATE 8.20e-00

US-09-864-761-45608

Query Match 60.0% Score 33; DB 10; Length 46;
 Best Local Similarity 60.0% Pred. No. 86;
 Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 LMLRLQDYEE 11
 DB 34 LMLRLQDYEE 43

RESULT 6

US-09-947-442-2
 ; Sequence 2, Application US/09947442
 ; Patent No. US20020052486A1
 ; GENERAL INFORMATION:
 ; APPLICANT: BATHE, BRIGITTE
 ; APPLICANT: SCHROEDER, INDRAPRA
 ; APPLICANT: PEPPERLE, WALTER
 ; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES WITH CODE FOR THE GPM3 GENE
 ; FILE REFERENCE: 213067US0X
 ; CURRENT FILING DATE: 2001-09-07
 ; PRIOR APPLICATION NUMBER: US/09/947,442
 ; PRIOR FILING DATE: 2000-09-09
 ; PRIOR APPLICATION NUMBER: DE 10044772.4
 ; PRIOR FILING DATE: 2001-07-11
 ; PRIOR APPLICATION NUMBER: DE 10134668.3
 ; NUMBER OF SEQ ID NOS: 4
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 2
 ; LENGTH: 235
 ; TYPE: PRT
 ; ORGANISM: Corynebacterium glutamicum
 ; US-09-947-442-2

Query Match 50.0% Score 33; DB 10; Length 235;
 Best Local Similarity 54.5% Pred. No. 48;
 Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 LMLRLQDYEE 11
 DB 135 ELMVSLDDWDE 145

RESULT 7

US-09-738-626-6077
 ; Sequence 6077, Application US/09738626
 ; Publication No. US20020197605A1
 ; GENERAL INFORMATION:
 ; APPLICANT: NAKAGAWA, SATOSHI
 ; APPLICANT: MIZOGUCHI, HIROSHI
 ; APPLICANT: ANDO, SEIKO
 ; APPLICANT: HAYASHI, MIKIO
 ; APPLICANT: OCHIAI, KEIKO
 ; APPLICANT: YOKOI, HARUHIKO
 ; APPLICANT: TATEISHI, NAKO
 ; APPLICANT: SENOH, AKIHIRO
 ; APPLICANT: IKEDA, MASATO
 ; APPLICANT: OKAZAKI, AKIO
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
 ; FILE REFERENCE: 249-125
 ; CURRENT APPLICATION NUMBER: US/09/738,626
 ; CURRENT FILING DATE: 2000-12-18
 ; PRIOR APPLICATION NUMBER: JP 99/377484
 ; PRIOR FILING DATE: 1999-12-16
 ; PRIOR APPLICATION NUMBER: JP 00/159162
 ; PRIOR FILING DATE: 2000-04-07
 ; PRIOR APPLICATION NUMBER: JP 00/280988
 ; PRIOR FILING DATE: 2000-08-03
 ; NUMBER OF SEQ ID NOS: 7059
 ; SOFTWARE: PatentIn ver. 3.0
 ; SEQ ID NO 6077
 ; LENGTH: 236

TYPE: PKT
 ORGANISM: Corynebacterium glutamicum
 US-09-738-626-6077

Query Match 60.0%; Score 33, DB 9, Length 236;
 Best Local Similarity 54.5%; Pred. No. 48;
 Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 ELMLRLQDYEE 11
 ||| | | | |
 DB 135 ELMSVLEWDWE 145

RESULT 8

US-10-025-187-2
 Sequence 2, Application US/10025187
 Patent No. US2002015003A1
 GENERAL INFORMATION:
 APPLICANT: SHEFFIELD, VAL
 APPLICANT: NISHIMURA, DARRYL
 APPLICANT: STONE, EDWARD
 TITLE OF INVENTION: A HARDEN-BIODEGRADABLE SUSCEPTIBILITY GENE AND USES THEREOF
 FILE REFERENCE: IOWA-03AUS
 CURRENT APPLICATION NUMBER: US/10/025,187
 CURRENT FILING DATE: 2001-12-18
 PRIOR FILING DATE: 2001-12-18
 NUMBER OF SEQ ID NOS: 3
 SOFTWARE: Patent In Ver. 2.1
 SEQ ID NO 2
 LENGTH: 721
 TYPE: PKT
 ORGANISM: Homo sapiens
 US-10-025-187-2

Query Match 60.0%; Score 33, DB 12, Length 721,
 Best Local Similarity 60.0%; Pred. No. 1,5e+02;
 Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 ELMLRLQDYEE 11
 | | | | | | |
 DB 348 LLELRNVEE 357

RESULT 9

US-09-904-536-20
 Sequence 20, Application US/09934536
 Patent No. US20020111475A1
 GENERAL INFORMATION:
 APPLICANT: McGraw, Jeffrey T.
 APPLICANT: Graddis, Thomas J.
 TITLE OF INVENTION: FLI-1 MUTANTS AND METHODS OF USE
 FILE REFERENCE: 03260.0028
 CURRENT APPLICATION NUMBER: US/09/904,536
 CURRENT FILING DATE: 2001-07-16
 PRIOR APPLICATION NUMBER: PRI-06 APPLICATION: 06/100,100
 PRIOR FILING DATE: 1999-07-02
 NUMBER OF SEQ ID NOS: 20
 SOFTWARE: Patent In Ver. 2.1
 SEQ ID NO 20
 LENGTH: 149
 TYPE: PKT
 ORGANISM: Homo sapiens
 US-09-904-536-20

Query Match 59.1%; Score 32.5; DB 10, Length 149,
 Best Local Similarity 56.2%; Pred. No. 36;
 Matches 9; Conservative 1; Mismatches 1; Indels 5; Gaps 1;

QY 1 ELMLRLQDYEE 11
 | | | | | | |
 DB 82 ELMLRLQDYEE 97

RESULT 10

US-09-745-763-4
 Sequence 4, Application US/09745763
 Patent No. US20020065394A1
 GENERAL INFORMATION:
 APPLICANT: Jacobs, Kenneth
 APPLICANT: McCoy, John M.
 APPLICANT: LaVallo, Edward R.
 APPLICANT: Collins-Racie, Lisa A.
 APPLICANT: Evans, Cheryl
 APPLICANT: Merberg, David
 APPLICANT: Treacy, Maurice
 APPLICANT: Spaulding, Vikki
 TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES
 NUMBER OF SEQUENCES: 219
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genetics Institute, Inc.
 STREET: 87 CambridgePark Drive
 CITY: Cambridge
 STATE: MA
 COUNTRY: U S A.
 ZIP: 02140
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/745,763
 FILING DATE: 18-Jun-2000
 CLASSIFICATION: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Sprunger, Suzanne A.
 REGISTRATION NUMBER: 41,323
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 498-8284
 TELEFAX: (617) 876-5851
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 216 amino acids
 TYPE: amino acid
 STRANDEDNESS: <Unknown>
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 US-09-745-763-4

Query Match 58.2%; Score 32; DB 10; Length 216;
 Best Local Similarity 75.0%; Pred. No. 66;
 Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 4 LRLQDYEE 11
 | | | | | | |
 DB -02 LRLQDYEE 209

RESULT 11

US-09-865-960-2
 Sequence 2, Application US/09865960
 Publication No. US20020192785A1
 GENERAL INFORMATION:
 APPLICANT: Hart, Matthew J.
 TITLE OF INVENTION: No US20020192785A1 Nucleic Acids and Polypeptides Related to
 TITLE OF INVENTION: Exchange Factor of PHO 57ase
 FILE REFERENCE: GNYX1023-DIV1
 CURRENT APPLICATION NUMBER: US/09/865,960
 CURRENT FILING DATE: 2002-05-15
 PRIOR APPLICATION NUMBER: US 08/943,768
 PRIOR FILING DATE: 1997-10-06
 PRIOR APPLICATION NUMBER: US 60/029,979
 PRIOR FILING DATE: 1996-11-06

? NUMBER OF SEQ ID NOS: 12
 ? SOFTWARE: Patent in version 3.1
 ? SEQ ID NO 2
 ? LENGTH: 912
 ? TYPE: PRT
 ? ORGANISM: Human p15 GEF-RHO gene
 ? FEATURE:
 US-09-865-960-2

Query Match 58.2%, Score 32, DB 9, Length 912,
 Best Local Similarity 60.0%, Pred. No. 4e+02;
 Matches 6, Conservative 3, Mismatches 1, Indels 0, Gaps 0.

QY 1 ELMRLQDYE 10
 I :|||:|
 Db 610 EDLLRLKQYO 619

RESULT 12
 US-09-888-615-64
 ? Sequence 64, Application US/09888615
 ? Patent No. US20020064856A1
 ? GENERAL INFORMATION:
 ? APPLICANT: FLOWMAN, GREGORY
 ? APPLICANT: WHYTE, DAVID
 ? APPLICANT: CAENEPEEL, SEAN
 ? APPLICANT: CHAPYDCZAR, GLEN
 ? APPLICANT: MANNING, GERALD
 ? APPLICANT: SUDARSANAM, SUDHA
 ? TITLE OF INVENTION: NOVEL PROTEASES
 ? FILE REFERENCE: 038602/1214
 ? CURRENT APPLICATION NUMBER: US/09/888,615
 ? PRIOR FILING DATE: 2001-06-26
 ? PRIOR APPLICATION NUMBER: 60/214,047
 ? NUMBER OF SEQ ID NOS: 150
 ? SOFTWARE: Patent in Ver. 2.1
 ? SEQ ID NO 64
 ? LENGTH: 3353
 ? TYPE: PRT
 ? ORGANISM: Homo sapiens
 ? FEATURE:
 ? NAME/KEY: MGD_RES
 ? LOCATION: (1891)
 ? OTHER INFORMATION: Any amino acid
 US-09-888-615-64

Query Match 58.2%, Score 32, DB 10, Length 3353;
 Best Local Similarity 62.5%, Pred. No. 1.2e+03;
 Matches 5, Conservative 2, Mismatches 1, Indels 0, Gaps 0;

QY 4 LRLQDYE 11
 I :|||
 Db 1523 IRIDIDYE 1530

RESULT 13
 US-09-864-761-48038
 ? Sequence 48038, Application US/09864761
 ? Patent No. US20020048763A1
 ? GENERAL INFORMATION:
 ? APPLICANT: Penn, Sharron G.
 ? APPLICANT: Rank, David R.
 ? APPLICANT: Hanzel, David K.
 ? APPLICANT: Chen, Wensheng
 ? TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 ? FILE REFERENCE: Aecmca-X-1
 ? CURRENT APPLICATION NUMBER: US/09/864,761
 ? PRIOR FILING DATE: 2001-05-23
 ? PRIOR APPLICATION NUMBER: US 60/180,312
 ? PRIOR FILING DATE: 2000-05-04
 ? PRIOR APPLICATION NUMBER: US 60/207,456

? PRIOR FILING DATE: 2000-05-26
 ? PRIOR APPLICATION NUMBER: US 09/632,366
 ? PRIOR FILING DATE: 2000-08-03
 ? PRIOR APPLICATION NUMBER: GR 24263.6
 ? PRIOR FILING DATE: 2000-10-04
 ? PRIOR APPLICATION NUMBER: US 60/236,359
 ? PRIOR FILING DATE: 2000-09-27
 ? PRIOR APPLICATION NUMBER: PCI/US01/00666
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: PCI/US01/00667
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: PCI/US01/00664
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: PCI/US01/00669
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: PCI/US01/00665
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: PCI/US01/00668
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: PCI/US01/00663
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: PCI/US01/00662
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: PCI/US01/00661
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: PCI/US01/00670
 ? PRIOR FILING DATE: 2001-01-30
 ? PRIOR APPLICATION NUMBER: US 60/234,687
 ? PRIOR FILING DATE: 2000-09-21
 ? PRIOR APPLICATION NUMBER: US 09/608,408
 ? PRIOR FILING DATE: 2000-06-30
 ? PRIOR APPLICATION NUMBER: US 09/774,203
 ? NUMBER OF SEQ ID NOS: 49117
 ? SOFTWARE: Asnchmax Sequence Listing Engine vers. 1.1
 ? SEQ ID NO 48038
 ? LENGTH: 39
 ? TYPE: PRT
 ? ORGANISM: Homo sapiens
 ? FEATURE:
 ? OTHER INFORMATION: MAP TO AC009966.2
 ? OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.9
 US-09-864-761-48038

Query Match 56.4%, Score 31, DB 10, Length 39;
 Best Local Similarity 75.0%, Pred. No. 17;
 Matches 6, Conservative 2, Mismatches 0, Indels 0, Gaps 0;

QY 1 ELMRLQD 8
 I :|||:|
 Db 11 EVMLRLD 18

RESULT 14
 US-09-864-761-34751
 ? Sequence 34751, Application US/09864761
 ? Patent No. US20020048763A1
 ? GENERAL INFORMATION:
 ? APPLICANT: Penn, Sharron G.
 ? APPLICANT: Rank, David R.
 ? APPLICANT: Hanzel, David K.
 ? APPLICANT: Chen, Wensheng

? TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 ? FILE REFERENCE: Aecmca-X-1
 ? CURRENT APPLICATION NUMBER: US/09/864,761
 ? PRIOR FILING DATE: 2001-05-23
 ? PRIOR APPLICATION NUMBER: US 60/180,312
 ? PRIOR FILING DATE: 2000-02-04
 ? PRIOR APPLICATION NUMBER: US 60/207,456
 ? PRIOR FILING DATE: 2000-05-06
 ? PRIOR APPLICATION NUMBER: US 09/132,366
 ? PRIOR FILING DATE: 2000-08-03

PRIOR APPLICATION NUMBER: GB 24263.6
 PRIOR FILING DATE: 2000-10-04
 PRIOR APPLICATION NUMBER: US 60/236,359
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/006666
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006664
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006669
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006665
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006670
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: US 60/234,687
 PRIOR FILING DATE: 2000-09-21
 PRIOR APPLICATION NUMBER: US 09/608,408
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: US 09/774,203
 PRIOR FILING DATE: 2001-01-29
 NUMBER OF SEQ ID NOS: 49117
 SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
 SEQ ID NO 34751
 LENGTH: 81
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AP000352.2
 OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL - 6.3
 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL - 9.3
 OTHER INFORMATION: EXPRESSED IN HONE MARROW, SIGNAL - 5.4
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL - 4.9
 OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL - 6.7
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL - 4.3
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL - 5
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL - 8.2
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL - 4.5
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL - 9.9
 OTHER INFORMATION: SWISSPROT HIT: Q9Y610, EVALUATE 2.00e-39
 OTHER INFORMATION: EST_HUMAN HIT: A01208.92.1, EVALUATE 4.80e+00
 US 09-864-761-34751

Query Match 56.4% Score 31; DB 10; Length 81;
 Best Local Similarity 55.6% Pred. No. 36;
 Matches 5; Conservative 3; Mismatches 1; Indels 1; Gaps 0;

QY 3 MRLKDYRQ 11
 DB 3 LRLKDYRQ 11

RESULT 15
 US 09-864-761-34118
 Sequence 34118, Application US/09864761
 Patent No. US20020048763A1
 GENERAL INFORMATION:
 APPLICANT: Penn, Sharron G.
 APPLICANT: Rank, David R.
 APPLICANT: Hanzel, David K.
 APPLICANT: Chen, Wenlong
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
 FILE REFERENCE: Aomicq-X-1

CURRENT APPLICATION NUMBER: US 09/864,761
 CURRENT FILING DATE: 2001-05-23
 PRIOR APPLICATION NUMBER: US 60/180,312
 PRIOR FILING DATE: 2000-02-04
 PRIOR APPLICATION NUMBER: US 60/207,456
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: US 09/632,366
 PRIOR FILING DATE: 2000-08-03
 PRIOR APPLICATION NUMBER: GB 24263.6
 PRIOR FILING DATE: 2000-10-04
 PRIOR APPLICATION NUMBER: US 60/236,359
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/006666
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006664
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006669
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006665
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006668
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006663
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006662
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006661
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006670
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: US 60/234,687
 PRIOR FILING DATE: 2000-09-21
 PRIOR APPLICATION NUMBER: US 09/608,408
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: US 09/774,203
 PRIOR FILING DATE: 2001-01-29
 NUMBER OF SEQ ID NOS: 49117
 SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
 SEQ ID NO 34118
 LENGTH: 86
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AP000154.1
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL - 1.2
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL - 1.6
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL - 1.5
 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL - 1.4
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL - 1.4
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL - 2.2
 OTHER INFORMATION: EXPRESSED IN H1474, SIGNAL - 1.7
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL - 3.1
 OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL - 2
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL - 1.1
 OTHER INFORMATION: EST_HUMAN HIT: A0114258.1, EVALUATE 5.00e-27
 OTHER INFORMATION: SWISSPROT HIT: Q63470, EVALUATE 5.00e-28
 US-09-864-761-34118

Query Match 56.4% Score 31; DB 10; Length 86;
 Best Local Similarity 50.0% Pred. No. 48;
 Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1 ELMRLQDYF 10
 DB 25 DLRLMLDYD 34

Search completed: January 16, 2003, 17:00:09
 Job time : 7.75714 secs